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## NOTICE OF ALLOWANCE AND FEE(S) DUE

1609

7590

07/01/2010

ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P. 1300 19TH STREET, N.W. SUITE 600 WASHINGTON,, DC 20036

EXAMINER

SASTRI, SATYA B

ART UNIT PAPER NUMBER

1796

DATE MAILED: 07/01/2010

|   | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|-------------|----------------------|---------------------|------------------|
| _ | 10/577,355      | 04/28/2006  | Hiroyuki Ikeuchi     | 51204               | 5141             |

TITLE OF INVENTION: PARTICULATE WATER-ABSORBENT RESIN COMPOSITION AND ITS PRODUCTION PROCESS

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 10/01/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

| maintenance fee notifica  | ed below of directed our attions.  ENCE ADDRESS (Note: Use Bl   | Not<br>Fee  | e: A certificate of  | mailin   | g can only be used for                         | correspondence address as<br>arate "FEE ADDRESS" for<br>or domestic mailings of the<br>for any other accompanying<br>ant or formal drawing, must |  |
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| 1600  | 7590 07/01  | have  | e its own certificate  | of ma  | iling or transmission.                         | int of formal drawing, must  |  |
| ROYLANCE, ABRAMS, BERDO & GOODMA 1300 19TH STREET, N.W. SUITE 600 WASHINGTON,, DC 20036   |   |   | , L.L.P. I he<br>Stat<br>addi<br>tran  | Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the Unit States Postal Service with sufficient postage for first class mail in an envelo addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO (571) 273-2885, on the date indicated below. |  |  |  |
| WASHINGTON  | N,, DC 20036  |   | _  |  |  |  | (Depositor's name)   |
|   |   |   |  |  |  |  | (Signature)  |
|   |   |   |  |  |  |  | (Date)   |
| APPLICATION NO.   | FILING DATE   |   | FIRST NAMED INVENTOR   |  | ATTC   | RNEY DOCKET NO.  | CONFIRMATION NO.   |
| 10/577,355  | 04/28/2006  |   | Hiroyuki Ikeuchi   |  |  | 51204  | 5141   |
| APPLN. TYPE   | SMALL ENTITY  | ISSUE FEE DUE   | PUBLICATION FEE DUE  | PREV. PAID ISSU  | E FEE  | TOTAL FEE(S) DUE   | DATE DUE   |
| nonprovisional  | NO  | \$1510  | \$300  | <b>\$</b> 0  |  | \$1810   | 10/01/2010   |
| EXAM  | IINER   | ART UNIT  | CLASS-SUBCLASS   | 1  |  |  |  |
| SASTRI,   | SATYA B   | 1796  | 525-329700   | l  |  |  |  |
| <ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> <li>ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON</li> </ol> |   |   | or agents OR, alternati<br>(2) the name of a singl<br>registered attorney or a<br>2 registered patent atto<br>listed, no name will be        | of up to 3 registered patent attorneys alternatively,  of a single firm (having as a member a rney or agent) and the names of up to the attorneys or agents. If no name is e will be printed.  |  |  |  |
| PLEASE NOTE: Un<br>recordation as set fort<br>(A) NAME OF ASSI  | less an assignee is ident<br>th in 37 CFR 3.11. Comp<br>GNEE  | ified below, no assignee<br>oletion of this form is NO  | data will appear on the p<br>T a substitute for filing an<br>(B) RESIDENCE: (CITY  | atent. If an assign<br>assignment.<br>and STATE OR C   | COUNT  | TRY)   | ocument has been filed for our country Government  |
|   |   |   |  |  |  |  |  |
| 4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies   |   |   | A check is enclosed.  Payment by credit car  The Director is hereby  | nent of Fee(s): (Please first reapply any previously paid issue fee shown above) check is enclosed. syment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any erpayment, to Deposit Account Number (enclose an extra copy of this form).                  |  |  |  |
|   | ns SMALL ENTITY statu   | is. See 37 CFR 1.27.  | ☐ b. Applicant is no lon   | -  |  |  |  |
| NOTE: The Issue Fee an interest as shown by the   | nd Publication Fee (if requestroyers)<br>records of the United Sta                                      | uired) will not be accepte<br>tes Patent and Trademark  | d from anyone other than t<br>Office.  | he applicant; a regi   | istered  | attorney or agent; or th   | ne assignee or other party in  |
| Authorized Signature  |   |   |  | Date   |  |  |  |
| Typed or printed name   |   |   |  | _  |  |  |  |
| This collection of inform<br>an application. Confiden<br>submitting the complete<br>this form and/or suggest<br>Box 1450, Alexandria, V<br>Alexandria Virginia 223  | itiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC | FR 1.311. The informatic<br>U.S.C. 122 and 37 CFR<br>USPTO. Time will vary<br>rden, should be sent to th<br>ONOT SEND FEES OR | on is required to obtain or 1<br>1.14. This collection is est<br>depending upon the indive<br>Chief Information Office<br>COMPLETED FORMS To | etain a benefit by t<br>imated to take 12<br>idual case. Any co<br>er, U.S. Patent and<br>D THIS ADDRESS   | he pub<br>minute:<br>ommen<br>Trader<br>S. SEN | lic which is to file (and<br>s to complete, including<br>ts on the amount of timerk Office, U.S. Dep<br>D TO: Commissioner                       | d by the USPTO to process)<br>ag gathering, preparing, and<br>me you require to complete<br>artment of Commerce, P.O.<br>for Patents, P.O. Box 1450, |

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| APPLICATION NO.           | FILING DATE                            | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.            | CONFIRMATION NO. |
|---------------------------|--|----------------------|--------------------------------|------------------|
| 10/577,355                | 10/577,355 04/28/2006 Hiroyuki Ikeuchi |                      | 51204                          | 5141             |
| 1609 75                   | 90 07/01/2010                          |                      | EXAM                           | INER             |
| ROYLANCE, Al              | BRAMS, BERDO &                         | SASTRI, SATYA B      |                                |                  |
| 1300 19TH STREE           | ET, N.W.                               | ART UNIT             | PAPER NUMBER                   |                  |
| SUITE 600<br>WASHINGTON,, | DC 20036                               |                      | 1796<br>DATE MAILED: 07/01/201 | 0                |

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 446 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 446 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

|  | Application No.   | Applicant(s)   |  |  |  |  |
|--|---|--|--|--|--|--|
|  | 10/577,355  | IKEUCHI ET AL.   |  |  |  |  |
| Notice of Allowability   | Examiner  | Art Unit   |  |  |  |  |
|  | SATYA B. SASTRI   | 1796   |  |  |  |  |
|  | SATTA D. SASTRI   | 1790   |  |  |  |  |
| The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this ap<br>or other appropriate communication<br>GHTS. This application is subject t | plication. If not included n will be mailed in due course. <b>THIS</b> |  |  |  |  |
| 1. X This communication is responsive to <u>amendment filed on 6</u>   | <u>3/22/10</u> .  |  |  |  |  |  |
| 2. The allowed claim(s) is/are <u>1-16 and 18-22</u> .   |   |  |  |  |  |  |
| 3. $\square$ Acknowledgment is made of a claim for foreign priority ur   | nder 35 U.S.C. § 119(a)-(d) or (f).   |  |  |  |  |  |
| a) ☐ All b) ☐ Some* c) ☐ None of the:  |   |  |  |  |  |  |
| <ol> <li>Certified copies of the priority documents have</li> </ol>  | been received.  |  |  |  |  |  |
| <ol><li>Certified copies of the priority documents have</li></ol>  | •   |  |  |  |  |  |
| 3. Copies of the certified copies of the priority do   | cuments have been received in this  | national stage application from the                                    |  |  |  |  |
| International Bureau (PCT Rule 17.2(a)).   |   |  |  |  |  |  |
| * Certified copies not received:   |   |  |  |  |  |  |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  |   | complying with the requirements  |  |  |  |  |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give  |   |  |  |  |  |  |
| 5. CORRECTED DRAWINGS ( as "replacement sheets") mus   | et be submitted.  |  |  |  |  |  |
| (a) ☐ including changes required by the Notice of Draftspers   | on's Patent Drawing Review ( PTO  | -948) attached   |  |  |  |  |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date   |   |  |  |  |  |  |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date   |   |  |  |  |  |  |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the   |   |  |  |  |  |  |
| 6. DEPOSIT OF and/or INFORMATION about the depo-<br>attached Examiner's comment regarding REQUIREMENT  |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892)  | 5. ☐ Notice of Informal F   | Patent Application   |  |  |  |  |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948)   | 6. ☐ Interview Summary  |  |  |  |  |  |
| 3. ☑ Information Disclosure Statements (PTO/SB/08),  | Paper No./Mail Da<br>7. ☐ Examiner's Amend  | ite  |  |  |  |  |
| Paper No./Mail Date 3/8/10 4.  Examiner's Comment Regarding Requirement for Deposit  |   | ent of Reasons for Allowance   |  |  |  |  |
| of Biological Material   | 9. ☐ Other  | S.R. ST ROGOGIO IOI / MOWATIO  |  |  |  |  |
|  |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
|  |   |  |  |  |  |  |

Application/Control Number: 10/577,355 Page 2

Art Unit: 1796

## EXAMINER'S COMMENT/REASONS FOR ALLOWANCE

1. This office action is in response to amendment filed on 6/22/10. Claims 1-16, 18-22 are now pending in the application.

2. Upon further consideration, all previous rejections are withdrawn for reasons cited below.

### Reasons For Allowance

- 3. Claims 1-16, 18-22 are allowed.
- 4. The following is an Examiner's Statement of Reasons for Allowance:

The instant claims are allowable over prior art of record to Brehm et al. and Smith et al.

Brehm et al. disclose water absorbing polymers having interstitial compounds such as cyclodextrin or derivatives thereof, Incorporated ionically, covalently and/or as a result of mechanical inclusion. The prior art further suggests covalent linkage of the cyclodextrins to the polymer skeleton, in the form of ether, amide or ester groups subsequent to polymerization (0039). Smith et al. reference teaches superabsorbent polymer with high permeability wherein the polymers may include 0 to 30% by wt. of water soluble polymers such as starch or starch derivatives and polyvinyl alcohol that can serve as graft base for the monomers to be polymerized (0037). Thus, the prior art of record fails to teach or suggest a particulate water-absorbent resin composition obtained by polymerizing an acid group-containing unsaturated monomer and surface crosslinking the resulting resin which composition contains tetra- or more functional polyol at least on surfaces as presently claimed.

Therefore, the instantly claimed invention is deemed allowable over closest prior art of record as per said art neither anticipating nor rendering obvious, alone or in combination, the instantly claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satya Sastri at (571) 272 1112. The examiner can be reached on Mondays, Thursdays and Fridays, 7AM-5.30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. David Wu can be reached on 571-272-1114.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

Application/Control Number: 10/577,355 Page 4

Art Unit: 1796

system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Satya B Sastri/

Primary Examiner, Art Unit 1796